

Plant genome; us ful as source of squalene

Patent Assignee: NAT RES COUNCIL CANADA (CANA )

Inventor: COVELLO P S; MACKENZIE S L; REANEY M J T

Number of Countries: 076 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9734003	A1	19970918	WO 97CA175	A	19970313	199743 B
AU 9720891	A	19971001	AU 9720891	A	19970313	199805

Priority Applications (No Type Date): US 9613340 A 19960313

Cited Patents: 6.Jnl.Ref; JP 6090743; US 5349126; WO 9609393

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9734003 A1 E 84 C12N-015/53

Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU  
CZ DE DK EE ES FI GB GE GH HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU  
LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG  
US UZ VN YU

Designated States (Regional): AT BE CH DE DK EA ES FI FR GB GH GR IE IT  
KE LS LU MC MW NL OA PT SD SE SZ UG

AU 9720891 A C12N-015/53 Based on patent WO 9734003

Abstract (Basic): WO 9734003 A

Isolated and cloned DNA (I), for introduction into a plant genome to reduce expression of squalene epoxidase (SE) below the natural level, has a sequence corresponding at least partly to a plant SE gene. Also new are: (1) plasmids pDR411, pDR111 and p129F12T7 (ATCC 97845, 97846 and 97847, respectively); (2) vectors containing a sequence antisense to (part of) a plant SE gene, flanked by promoter and terminator, for insertion into a plant genome; and (3) genetically modified plants, or their seeds, produced by insertion of (I).

USE - Plants transformed with (I) accumulate high levels of squalene (II) in their tissues and this can be recovered for use in cosmetics and health products.

ADVANTAGES - (II) can now be produced commercially from modified plants, particularly oilseed crops, as an alternative to isolation from shark liver or extraction from plant oils.

Dwg.4/4

Derwent Class: C06; D16; D21; D23; P13

International Patent Class (Main): C12N-015/53

International Patent Class (Additional): A01H-005/00; C12N-009/02;  
C12N-015/82

?map anpryy temp

1 Select Statement(s), 1 Search Term(s)

Serial#TD564

?exs

Executing TD564

S8 1 AN=US 13340-1996

?s s8 not s7

1 S8

1 S7

S9 0 S8 NOT S7

?save temp

Temp SearchSave "TD565" stored

?logout

06jul00 13:15:57 User225112 Session D2212.2

Sub account: 021565-060

\$15.25 0.693 DialUnits File351

